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(p<0.05)

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24/5	450	44/97	405		
24/5	450	4/97	45		
36/5	658	38/16	343		
36/5	658	34/99	315		
38/81	692	16/86	152		
38/81	692	60/02	540		

(F= $\frac{1}{16}$)

CI=% Epi Info

			p value	Odd ratio
	(%)	(%)	,	,
	(%)	(%)	,	,
	(%)	(%)	,	,
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² Shami
³ Schneider
⁴ De Costa

¹ Bittles

References:

1. Bittles AH: The role and significance of consanguinity as a demographic variable. *Population and Development Review*, 1994, 20: 561-584.
2. Hussein R: Lay perceptions of genetic risks attributable to inbreeding in Pakistan. *Am J Hum Biol*, 2002, 14(2): 264-274.
3. Hussein R, Bittles AH: Genetic risks of consanguineous marriages in Pakistan. *J Biosocial Sci*, 2000, 32: 433-422.
4. Hussein R, Bittles AH: The prevalence and demographic characteristics of consanguineous marriages in Pakistan. *J Biosocial Sci*, 1998, 30: 261-275.
5. Hussein R, Bittles AH: Differentials in age at marriage, contraceptive use and fertility in consanguineous marriages in Pakistan. *J Biosocial Sci*, 1999, 31: 121-138.
6. Simsek S, Ture M, Tugrul B, Mercan N, Ture H, Akdag B: Consanguineous marriages in Denizli, Turkey. *Ann Hum Biol*, 1999, Sep-Oct, 26(5): 489-491.
7. Schull W J, Neel JV: The effects of parental consanguinity and inbreeding in Hirado, Japan. *Am J Hum Gen*, 1972, 24: 425-453.
8. Modell B: Social and genetic implications of customary consanguineous marriage among British Pakistanis. *J Med Gen*, 1991, 28: 720-723.
9. Bittles AH, Savithri HS, Venkatesha M HS, Baskaran G, Wang W, Cahill J, et al: Human inbreeding: a familiar story full of surprises. London, Taylor and Francis, 2001: 68-78.
10. Bittles AH: Consanguinity and its relevance to clinical genetics. *Clin Gen*, 2001, 60: 89-98.

15. Ottenheimer M: Lewis Henry Morgan and the prohibition of cousin marriage in the United States. *J Fam Hist*, 1990, 15: 325-334.
16. Bittles AH, Neel JV: The costs of human inbreeding and their implications for variation at the DNA level. *Nature Genetics*, 1994, 8: 117-121.
17. Bittles AH: The influence of consanguineous marriage on reproductive behavior in India and Pakistan: In *Diversity and Adaptability in Human Populations*, Ed, AJ Boyce and V Reynolds. Oxford, Oxford University Press, 1995: 72-85.
18. Ober C, Hyslop T Hauck WW: Inbreeding effects on fertility in humans: evidence for reproductive compensation. *Am J Hum Gen*, 1999, 64: 225-231.
19. Bittles AH, Grant JC, Sullivan SG, Hussain R: Does inbreeding lead to decreased human infertility? *Ann Hum Biol*, 2002, 29:111-131.
20. Tunçbilek E, Koç I: Consanguineous marriage in Turkey and its impact on fertility and mortality. *Ann Hum Gen*, 1994, 58: 321-329.
21. Shami SA, Qaisar R, Bittles AH: Consanguinity and adult morbidity in Pakistan. *Lancet*, 1991, 338: 954-955.
22. Al-Abdulkareem AA, Ballal SG: Consanguineous marriage in an urban area of Saudi Arabia: rates and adverse health effects
23. Schneider H: Saudi Inter-marriages Have Genetic Costs. *Washington Post Foreign Service* Sunday, January 16, 2000; A01.
24. De Costa C: Pregnancy outcomes in Lebanese-born women in Western Sydney. *Med J Aust*, 1988, 149: 457-460.